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1 A student laboratory environment for real-time software systems development

R. Stephen Dannelly, Carl W. Steidley

April Proceedings of the twelfth annual CCSC South Central conference on The journal of computing in small colleges

Publisher: Consortium for Computing Sciences in Colleges

Publisher: Consortium for Computing Sciences in College

Full text available: pdf(62.94

Results 1 - 20 of 3,140 Result page: 1

Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 42, Citation Count: 3

This paper describes a versatile and innovative active learning laboratory, called the Real-Time Lab, currently under development that will be used to teach a wide variety of computer science and mathematics subjects. The laboratory, equipped with a ...

Energy-efficient collision-free medium access control for wireless sensor networks

Venkatesh Rajendran, Katia Obraczka, J. J. Garcia-Luna-Aceves

November SenSys '03: Proceedings of the 1st international conference on Embedded 2003 networked sensor systems

Publisher: ACM

Full text available: pdf(284.26

Additional Information; full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 15, Downloads (12 Months): 183, Citation Count: 33

The traffic-adaptive medium access protocol (TRAMA) is introduced for energy-efficient collision-free channel access in wireless sensor networks. TRAMA reduces energy consumption by ensuring that unicast, multicast, and broadcast transmissions have no ...

Keywords: ad hoc networks, energy-efficient scheduling, sensor networks, traffic-adaptive medium access

A cache management object oriented simulation for mobile environments

Stylianos Drakatos, Christos Douligeris

MSWiM '07: Proceedings of the 10th ACM Symposium on Modeling, analysis, and October 2007 simulation of wireless and mobile systems

Publisher: ACM

Full text available: pdf(711.26

Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 9, Downloads (12 Months): 59, Citation Count: 0

Cache management in a real world mobile user system is too complex to allow for an analytical evaluation through a realistic mobility model. The recently proposed locationdependent applications request the design of simulation and the development of ...

Keywords: mobile computing, object oriented simulation model

Eve-tracking to model and adapt to user meta-cognition in intelligent learning

environments

Christina Merten, Cristina Conati

January IUI '06: Proceedings of the 11th international conference on Intelligent user

2006 interfaces

Publisher: ACM

Full text available: pdf(137.55

Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 18, Downloads (12 Months): 124, Citation Count: 2

In this paper we describe research on using eye-tracking data for on-line assessment of user meta-cognitive behavior during the interaction with an intelligent learning environment. We describe the probabilistic user model that processes this information, ...

Keywords: adaptive interfaces, eye-tracking, intelligent assistance for complex tasks, intelligent learning environments, meta-cognitive skills, user modeling

A peer-to-peer environment for monitoring multiple wireless sensor networks

Athanasios Antoniou, Ioannis Chatzigiannakis, Athanasios Kinalis, Georgios Mylonas, Sotiris Nikoletseas, Apostolos Papageorgiou

October PM2HW2N '07: Proceedings of the 2nd ACM workshop on Performance monitoring 2007 and measurement of heterogeneous wireless and wired networks

Publisher: ACM

Full text available: pdf(312.55

Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 27. Downloads (12 Months): 123. Citation Count: 0

In this work we present the basic concepts in the architecture of a peer-to-peer environment for monitoring multiple wireless sensor networks, called ShareSense, ShareSense, which is currently under development, uses JXTA as a peer-to-peer substrate, ...

Keywords: JXTA, application development, wireless sensor networks

Managing large scale virtual environments using portals

Luciene Cristina Rinaldi Rodrigues, José Remo Ferreira Brega, Antonio Carlos Sementille, Ildeberto A. Rodello

June VRCAI '04: Proceedings of the 2004 ACM SIGGRAPH international conference on 2004 Virtual Reality continuum and its applications in industry

Publisher: ACM

Full text available: pdf(380.64

Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 22, Citation Count: 0

This Article describes a technique for Large Scale Virtual Environments (LSVEs) partitioning in hexagon cells and using portal in the cell interfaces to reduce the number of message on the network and the complexity of the virtual world. These environments ...

Keywords: area of interest manager, cell interface, distributed virtual environments, large scale virtual environments, networked virtual environment

Towards mobility as a network control primitive

David Kiyoshi Goldenberg, Jie Lin, A. Stephen Morse, Brad E. Rosen, Y. Richard Yang May MobiHoc '04: Proceedings of the 5th ACM international symposium on Mobile ad hoc 2004 networking and computing

Publisher: ACM

Full text available: pdf(487.68 KB)

Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 8. Downloads (12 Months): 92. Citation Count: 8

In the near future, the advent of large-scale networks of mobile agents autonomously performing long-term sensing and communication tasks will be upon us. However, using controlled node mobility to improve communication performance is a capability that ...

Keywords: mobility control, routing, self-configuration in ad hoc networks

8 A stackelberg game for power control and channel allocation in cognitive radio networks

Michael Bloem, Tansu Alpcan, Tamer Ba•ar

October ValueTools '07: Proceedings of the 2nd international conference on Performance

2007 evaluation methodologies and tools

Publisher: ICST (Institute for Computer Sciences, Social-Informatics and Telecommunications

Engineering)

Full text available: pdf(220.26 Additional Information: full citation, abstract, references

Bibliometrics: Downloads (6 Weeks): 24, Downloads (12 Months): 32, Citation Count: 0

The ongoing growth in wireless communication continues to increase demand on the frequency spectrum. The current rigid frequency band allocation policy leads to a significant under-utilization of this scarce resource. However, recent policy changes by ...

9 Achieving effective floor control with a low-bandwidth gesture-sensitive

Milton Chen

videoconferencing system

December MULTIMEDIA '02: Proceedings of the tenth ACM international conference on Multimedia

Publisher: ACM

Full text available: pdf(340.30

Additional Information: full citation, abstract, references, cited by

Bibliometrics: Downloads (6 Weeks): 1. Downloads (12 Months): 29. Citation Count: 5

Multiparty videoconferencing with even a small number of people is often infeasible due to the high network bandwidth required. Bandwidth can be significantly reduced if most of the advantages of using full-motion video can be achieved with low-frame-rate...

Keywords: floor control, frame rate, multiparty videoconferencing

10 Selective perception policies for guiding sensing and computation in multimodal systems:

a comparative analysis

Nuria Oliver, Eric Horvitz

November | CMI '03: Proceedings of the 5th international conference on Multimodal 2003 interfaces

Publisher: ACM

Full text available: pdf(489.96

e: Ddf(489.96 Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 7, Downloads (12 Months): 37, Citation Count: 1

Intensive computations required for sensing and processing perceptual information can impose significant burdens on personal computer systems. We explore several policies for selective perception in SEER, a multimodal system for recognizing office activity ...

Keyw ords: Hidden Markov models, automatic feature selection, expected value of information, human behavior recognition, multi-modal interaction, office awareness, selective perception

11 The "control of fear": an interactive art experiencing and presenting system with

multimodal sensors and media

Chin Chih Yang, Lipin Liu, Jacy Chen

November MULTIMEDIA '05: Proceedings of the 13th annual ACM international conference on Multimedia

Publisher: ACM

Full text available: pdf(500.76

Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 9, Downloads (12 Months): 46, Citation Count: 0

The "Control of Fear" project is an interactive art exhibition project to provide the general public an opportunity to experience what it might be occurred to them if their lives were suddenly altered by an unforeseen and unpredictable catastrophic event.The ...

Keywords: 3D holographic, intelligent interaction, interactive art, multimodal sensor, panoramic video, speech recognition

12 Channel access algorithms with active link protection for wireless communication networks with power control

Nicholas Bambos, Shou C. Chen, Gregory J. Pottie

October | IEEE/ ACM Transactions on Networking (TON), Volume 8 Issue 5

2000

Publisher: IEEE Press

Full text available: pdf(339.62

Additional Information: full citation, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 75, Citation Count: 13

Keywords: admission control, multiple access, power control, radio channel access, wireless networks

13 Believable environments: generating interactive storytelling in vast location-based

pervasive games

Anton Gustafsson, John Bichard, Liselott Brunnberg, Oskar Juhlin, Marco Combetto June ACE '06: Proceedings of the 2006 ACM SIGCHI international conference on Advances 2006 in computer entertainment technology

Publisher: ACM

Full text available: pdf(239.21

Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 5, Downloads (12 Months): 179, Citation Count: 1

Generating content into vast areas is a relevant challenge in the field of location-based pervasive games. In this paper, we present a game prototype that enables children travelling in the back seat of a car to enjoy a narrated experience where gameplay ...

Keywords: audio centric, backseat playground, believable environment, interactive storytelling, location based, pervasive game, prototype performance test

14 Crew roles and operational protocols for rotary-wing micro-uavs in close urban

environments

Robin R. Murphy, Kevin S. Pratt, Jennifer L. Burke

March HRI '08: Proceedings of the 3rd ACM/IEEE international conference on Human robot 2008

interaction

Publisher: ACM

Full text available: pdf(374.21 KB)

Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks); 30. Downloads (12 Months); 30. Citation Count; 0

A crew organization and four-step operational protocol is recommended based on a cumulative descriptive field study of teleoperated rotary-wing micro air vehicles (MAV) used for structural inspection during the response and recovery phases of Hurricanes ...

Keywords: human-robot interaction, robot, unmanned aerial vehicle

15 Audio-visual multi-person tracking and identification for smart environments

Keni Bernardin, Rainer Stiefelhagen September

MULTIMEDIA '07: Proceedings of the 15th international conference on

2007 Multim edia

Publisher: ACM

Full text available: pdf(638.17

Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 23, Downloads (12 Months): 173, Citation Count: 0

This paper presents a novel system for the automatic and unobtrusive tracking and identification of multiple persons in an indoor environment. Information from several fixed cameras is fused in a particle filter framework to simultaneously track multiple ...

16 User requirements for intelligent home environments: a scenario-driven approach and

empirical cross-cultural study

Carsten Röcker, Maddy D. Janse, Nathalie Portolan, Norbert Streitz

October sOc-EUSAI '05: Proceedings of the 2005 joint conference on Smart objects and 2005 ambient intelligence: innovative context-aware services: usages and technologies

Publisher: ACM

Full text available: pdf(121.64 Additional Information: full citation, abstract, references, cited by

Bibliometrics: Downloads (6 Weeks); 17, Downloads (12 Months); 124, Citation Count: 1

This paper presents the results of an empirical cross-cultural study conducted at six different sites in five European countries in the context of the EU IST-IP project AMIGO. Ambient Intelligence for the Networked Home Environment [1]. The study employed ...

Low-cost multi-touch sensing through frustrated total internal reflection

Jefferson Y. Han October

UTST '05: Proceedings of the 18th annual ACM symposium on User interface software and technology

2005 Publisher: ACM

Full text available: pdf(1.08 Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 231. Downloads (12 Months): 2610. Citation Count: 14

This paper describes a simple, inexpensive, and scalable technique for enabling highresolution multi-touch sensing on rear-projected interactive surfaces based on frustrated total internal reflection. We review previous applications of this phenomenon ...

Keywords: frustrated total internal reflection, multi-touch, tactile, touch

18 Continual planning and acting in dynamic multiagent environments

Michael Brenner, Bernhard Nebel

November PCAR '06: Proceedings of the 2006 international symposium on Practical 2006 cognitive agents and robots

Publisher: ACM

Full text available: pdf(672.09

Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 8, Downloads (12 Months): 77, Citation Count: 0

In highly dynamic environments, e.g. multiagent systems, finding optimal action plans is practically impossible since individual agents lack important knowledge at planning time or this knowledge has become obsolete when a plan is executed. It is often ...

19 Multi Level Control of Cognitive Characters in Virtual Environments

Peter Dannenmann, Henning Barthel, Hans Hagen

October VLS '03: Proceedings of the 14th IEEE Visualization 2003 (VIS'03)

2003 Publisher: IEEE Computer Society

Full text available: pdf(106.03

Additional Information: full citation, references

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 17, Citation Count: 0

20 A hybrid mobile robot architecture with integrated planning and control

Kian Hsiang Low, Wee Kheng Leow, Marcelo H. Ang, Jr.

AAMAS '02: Proceedings of the first international joint conference on Autonomous

2002 agents and multiagent systems; part 1

Publisher: ACM

Full text available: pdf(221.97

Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 7, Downloads (12 Months): 115, Citation Count: 2

Research in the planning and control of mobile robots has received much attention in the past two decades. Two basic approaches have emerged from these research efforts: deliberative vs.\ reactive. These two approaches can be distinguished by their different ...

Keywords: hybrid agent architectures, learning, mobile agents, perception and action in agents, performance, self-organizing systems

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